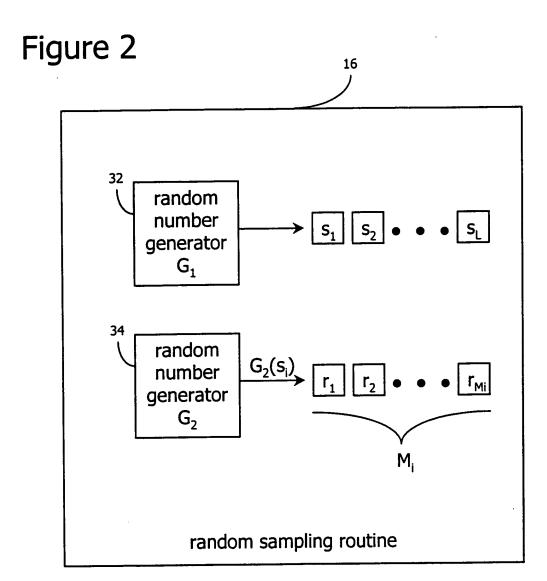
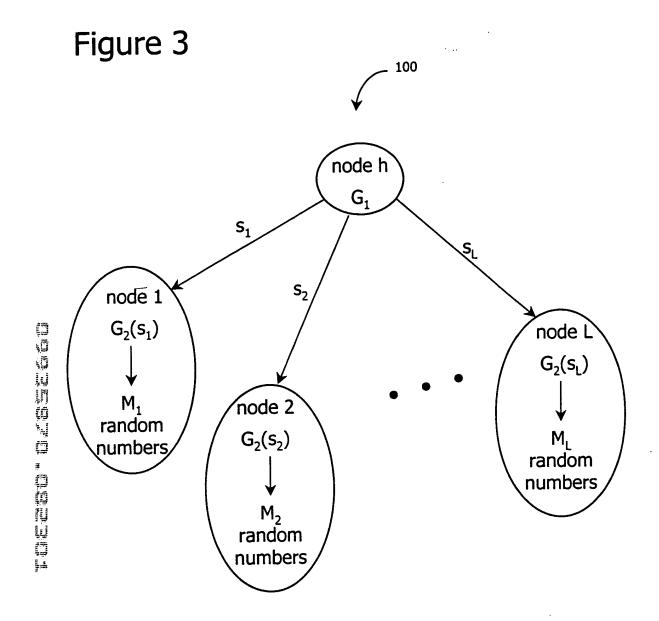
Figure 1 100 10 10 10 node L node 2 node 1 array A<sub>2</sub> array A array A 12 N<sub>L</sub> tuples N<sub>1</sub> tuples N<sub>2</sub> tuples storage storage storage relation 24 24 16 20 16 random random random sampling sampling sampling routine routine routine processor processor processor 26 26 26







## Figure 4

value of random number:

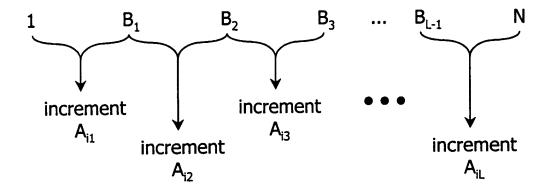


Figure 5



